ABSTRACT OF THE DISCLOSURE

Combustion method and apparatus for NO_x reduction are capable of easily achieving NO_x reduction to an exhaust NO_x value of 30 ppm or under. The combustion method is to perform in combination a first NO_x reduction step for suppressing generated NO_x value to 60 ppm or under (at 0% O_2 in exhaust gas, dry basis) by a low NO_x burner, a second NO_x reduction step for recirculating exhaust gas of the low NO_x burner to a burning reaction zone formed by the low NO_x burner, and a third NO_x reduction step for adding water or steam to the burning reaction zone.